

Product datasheet for **RG206949**

AGBL2 (NM_024783) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGBL2 (NM_024783) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGBL2
Synonyms:	CCP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206949 representing NM_024783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCCAGCTTTGAAACGCACCTAAAGCAGACTATTCCTGATCCTTATGAAGACTTTATGTACCGTC
 ACCTCCAATATTATGGCTACTTTAAAGCTCAGAGAGGCAGTTTACCAAACCTCGCTACGCATCAGCATGT
 TCGGAAGAATAACCCTCAATGCCTGTTGAATGGCTCTCTTGGGAAAAAGATGATTTGATACCAGACACC
 CTGCAAAAGGAGAAGCTTCTATGGCCTATCAGTTTATCTTCAGCTGTGCACAGACAGATAGAAGCCATCA
 ACAGAGACTTTCACTCTTGCCTGGGCTGGATGCAGTGGCGCGGCCTCAGCTCACTGCAACCTCCACCTCC
 CAGATTCAAGGATTCTCCTGCCTCAGCTTCCGAGTAGCTGGGATTACAGATTACATATGCTGAGTTTA
 CCACATCTTAGGAGCAGACAGCTTCTTTATGATGAGTTGGATGAAGTAAACCCACGCTTCGAGAACCCC
 AAGAGCTCTTTCCATTTTGTCTACCAAGAGGCCACTGCAGGCTCCAAGATGGCCAAATTGAATGTGAGGT
 CATCAAGGAAAACATCCATCATATTGAGTGGGCTCCACCTCAACCAGAATATTTCTATCAGCCTAAAGGA
 AATGAAAAGGTACCAGAGATTGTAGGAGAGAAAAAGGAACAGTTGTCTATCAATTAGATTCACTGACCTA
 TAGAAGGTTCTATTTTACCAGTTCAGAGTGGGAGGCAAAACGAGGAATTGTCAAGGAACCTGCTGTCCAC
 GTTGCAAGGACCAGAAGATAACTCTACTGTTTGAATCAAGGTTTGAGAGTGGGAATCTGCAAAAAGCT
 GTCAGAGTAGACACCTATGAGTATGAACTCACCTTGCAACTGACCTCTACACTAACAAACACACTCAGT
 GGTTTTATTTTCGTGTTTCAAGAACCCAGAAAAGATGCTACCTATCGCTTCACCATTGTCAACTTGCTAAA
 ACCCAAGAGTCTTTACTGTAGGGATGAAGCCACTCTTGTACTCCCAATTGGATGCCAACACCCGCAAT
 ATTGGCTGGAGGAGAGAAGGAAATGAAATCAAGTACTACAAGAACAACACGGATGATGGGCAGACGCCCT
 TCTACTGTCTCAGTGGACCATTCACTTTCCATATGACCAGGACACTTGCCTTCTTTCGACACTTACCC
 ATATACATACTGATTTGCAATGCTACCTCCTGTGAGTGGCAAAACAACCTATCCAGTCTCAGTTCTGC
 AAGCTCCAAACTTTATGCAGGAGCCTAGCAGGAAATACCGTTTACTTGTCCACCTACCAACCCATCCC
 AGACCCCTCAAGAGGCAGCTGCAAGAAAGCTGTGGTCTTGTGAGTCCAGAGTTTACCCTGGAGAAAGTAA
 TGGCTCCTGGGTTATGAAAGGCTTTTGGACTTCATCCTTAGCAACTCCCAGATGCCAGCTCCTCAGA
 GATATTTTGTCTTCAAGGTGCTTCCCATGTTAAATCCAGATGGTGTGATTGTGGGGAATTATCGGTGTT
 CCTTGGCCGAAGGGATTTGAACAGGCATTATAAAACCATTCTGAAGGAGCTTTCCCTTGTATTTGGTA
 CACCAGGAACATGATCAAAAGACTTCTTGAAGAAAGAGAGTTCTGTTGTATTGTGATTTCCATGGCCAC
 AGTCGTAAGAATAATATCTTCTGTATGGCTGTAATAACAACAATCGCAAATACTGGCTTATGAACGAG
 TCTTTCTTTAATGTTATGCAAAAATGCACCAGATAAGTTCTCTTTTACAGTTGTAATTTAAGGTCCA
 AAAATGCAAGAAGGAACAGGACGAGTTGTTATGTGGCGGATGGGAATCCTAAACAGCTACACCATGGAG
 TCTACCTTTGGCGGGTCCACCCTGGGTAATAAAAGAGACACCCACTTTACCATCGAAGATCTGAAGTCTT
 TAGGTTATCATGTCTGTGACACCCTTCTGGACTTTTGTGATCCTGACCAAATTAAGTTCACTCAGTGTCT
 AGCAGAGCTTAAGGAGCTTTTACGACAGGAAATCCACAAGAAATCCATGAACTTGGACAAGATGTAGAT
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 TCTCAGATGGTCTTCTGTTTACCTAGCAAACATAGCAGATGAGCTGACTCAGAAAAAGAAGATGTTTAA
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 CCTTTTCAAAAACCTCAGAGAATCCAGTTTTTTACCAATGAAAAATGAAAACCAAGGTTAAATGAGAC
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 AAAGGGAGAATGCAGAATAAGAAGCCAGGCTTTACAGTATCATGCTCTCCAAAGAGAACCATAAACTCCA
 GCCAAGAGCCAGCTCCAGGTATGAAGCCAACTGGCTAGGAGCAGATATCTGCCACAAAGAGAGGCTG
 TGCTGCCATGGCGGCATACCCATCCTTGACATATACACATACCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >RG206949 representing NM_024783
 Red=Cloning site Green=Tags(s)

MFPALETHLKQTI PDPYEDFMYRHLQYYGYFKAQRGSLPNSATHQHVRKNNPQCLLNGSLGEKDDLIPDT
 LQKEKLLWPI SLSSAVHRQIEA INRDFHSLGWMQWRGLSSLQPPPPRFKDPSPASAFRVAGITDSHMLSL
 PHLRSRQLLYDELDEVNPR LREPQELF SILSTKRPLQAPRWPIECEVIKENIHHIEWAPPQPEYFYQPKG
 NEKVP EIVGEKKGTVVYQLDSVPIEGSYFTSSRVGGKRGIVKELAVTLQGPEDNTLLFESRFESGNLQKA
 VRVDTYEYELTLRTDLYTNKHTQWFYFRVQNRKDATYRFITIVNLLKPKSLYTVGMKPLLYSQLDANTRN
 IGWRREGNEIKYYKNNTDDGQQPFYCLTWTIQFPYDQDTCFFAHFYPTYTYDLQCYLLSVANNPIQSQFC
 KLQTLCRSLAGNTVYLLTITNPSQTPQEA AAKKAVVLSARVHPGESNGSWMKGFDFILSNPDAQLLR
 DIFVFKVLPMLNPDGVI VGNRYCSLAGRDLNRHYKILKESFPCIWYTRNMIKRLL EEREVLLYCDFHGH
 SRKNNIFLYGCNNNNRKYWLHERVFPMLCKNAPDKFSFHSCNFVQKCKEGTGRVMMWRMGI LNSYTM
 STFGGSTLGNKRDTHFTIEDLKSLGYHVCDTLLDFCDPDQIKFTQCLAE LKELLRQEIHKKFHELGDVD
 LEGSWSDISLSDIESSTSGDSSLSDGLPVHLANI ADELTKKKMFKKKKKSLQTRKQRNEQYQKKNLM
 QK LKLTEDTSEKAGFASTLQKQPTFFKNSNSSFLPMKNENPRLNETNLNRRDKDTPLDPSMATLILPKN
 KGRMQNKKPGFTVSCSPKRTINSSQEPAPGMKNWPRSRYPATKRGCAMAAYPSLHIYTYP

TRTRPLE - GFP Tag - V

Restriction Sites:

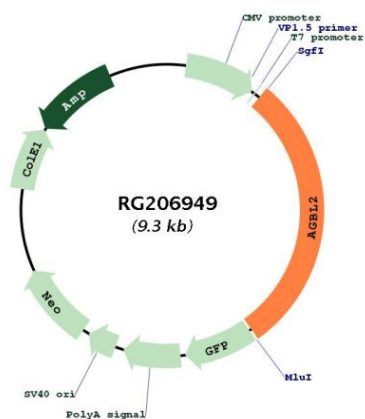
SgfI-MluI

Cloning Scheme:



ACCN:	NM_024783
ORF Size:	2706 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_024783.2 , NP_079059.2
RefSeq Size:	3411 bp
RefSeq ORF:	2709 bp
Locus ID:	79841
UniProt ID:	Q5U5Z8
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome
Gene Summary:	<p>Metalloprotease that mediates deglutamylation of target proteins. Catalyzes the deglutamylation of polyglutamate side chains generated by post-translational polyglutamylation in proteins such as tubulins. Also removes gene-encoded polyglutamates from the carboxy-terminus of target proteins such as MYLK. Does not show dephosphorylation or deglycosylase activities from the carboxy-terminus of tubulin.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG206949